**Level 4 Homework**

**Due 21st August 2014**

**Spelling**

*gravity, orbit, sphere, cosmonaut, equinox, astronaut, galaxy, corona, waning, waxing*

Write these words into three columns. In the first column, write the words in alphabetical order, practise spelling them correctly in the 2nd column and then get someone to test you in the 3rd column. Make sure you correct any errors in the 3rd column and get it signed.

**Writing**

Choose 5 of your spelling words and create a pneumonic for each one.

e.g. Space – **S**ally **p**asted **a**qua **c**ardboard **e**verywhere.

**Reading**

**You must read for 15 – 20 minutes each night**. We expect 10 reading entries for this homework period. Please get each reading entry signed in the back of your homework book.

**IS**

It’s the year 2114 and N.A.S.A., in conjunction with QANTAS, has introduced family holidays to the planets of our Solar System. You have been employed to create an advertisement that will be used to entice people to book a trip. Choose a planet and create an A4 poster highlighting the experiences families can have on your planet. Ensure your poster uses persuasive techniques and is aesthetically appealing, i.e. grabs people’s attention and looks good.

**Maths**

**1. Multiplication**

Find a deck of cards and a person to play a game with. Take the picture cards out of the deck.

Deal the cards out equally between the 2 of you, keeping them face down.

When you are ready, both of you turn the top card over at the same time. Multiply the numbers together – whoever calls out the correct answer keeps the 2 cards.

Winner = person who has the most cards at the end of the game.

**Record in your homework book who you played with and how many cards you both ended up with.**

**2. Fractions, Decimals and Percent**

Over one day during the next fortnight, take note of all the things you do in 24 hours. Sort the ‘activities’ into 4-6 subheadings, i.e., eating, school, sleep, entertainment and sport. Create a table to record how much time you spend doing each activity.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| MONDAY | Sleep | Eating | Sport | Entertainment | School |
| Night’s sleep | 8 hours |  |  |  |  |
| Lunch |  | 20 minutes |  |  |  |
| Netball training |  |  | 1 hour |  |  |
| School |  |  |  |  | 6.5 hours |
| Afternoon tea |  | 5 minutes |  |  |  |
| Watch T.V. |  |  |  | 1 hour |  |
| **TOTAL** | **480 minutes** | **25 minutes** | **60 minutes** | **60 minutes** | **390 minutes** |

Convert the total amount of time spent at each activity into a fraction, decimal and percentage of a complete day:

|  |  |  |  |
| --- | --- | --- | --- |
| ACTIVITY | Fraction | Decimal | Percent |
| Sleep | \* 8/24 or 1/3 | 0.33 | 33% |
| School | 390/1440 or 13/48 | 0.27 | 27% |

\* Sleep = 8 hours -> 8/24 or 1/3; decimal = 8 divided by 24 = 0.33; Percent = 0.33 x 100 = 33%